



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/780,015	02/09/2001	Bo Domstedt	1774/1G724US1	7409

7590 08/17/2004

DARBY & DARBY P.C.
805 Third Avenue
New York, NY 10022

EXAMINER

CHAI, LONGBIT

ART UNIT	PAPER NUMBER
----------	--------------

2131

DATE MAILED: 08/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/780,015

Applicant(s)

DOMSTEDT ET AL.

Examiner

Longbit Chai

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) ____ is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-106 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 May 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>4</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Priority

1. Applicant's claim for domestic priority under 35 U.S.C. 119(e) is acknowledged.
2. The application is filed on 02/09/2001 but claims the benefit of U.S. provisional application number 60/182,356 filed on Feb. 14, 2000.
3. Therefore, the effective filing date for the subject matter defined in the pending claims in this application is 2/14/2000.

Claim Objections

4. Claim 5 is objected to because of the following informalities: (a) The phrase "farther comprising" shown on Claim 5 has spelling error. It should be corrected as "further comprising".

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1 – 4, 16 – 19, 37 – 40, 52 – 55, 72 – 75 and 87 – 90 are rejected under 35 U.S.C. 102(b) as being anticipated by Akiyama (Patent Number: 5440631), hereinafter referred to as Akiyama.
6. As per claim 1, Akiyama teaches an information processing apparatus for converting message information from a first format into a second format, comprising:

Art Unit: 2131

a. a first cipher unit having a first cipher key input and a data output for outputting a data stream generated dependent on a first cipher key input via said first cipher key input (Akiyama: see for example, Column 7 Line 12 – 19 and Figure 2 Element 201).

b. a second cipher unit having a plaintext input a second cipher key input and a ciphertext output said second cipher unit via said cipher key input being communicatively coupled to said data output of the first cipher unit for receiving a second cipher key in the shape of said data stream (Akiyama: see for example, Column 7 Line 20 – 41 and Figure 2 Element 202); and

c. said first cipher unit being arranged to perform, dependent on a predetermined rule, a renewed generation of a data stream for use as said second cipher key (Akiyama: see for example, Column 10 Line 38 – 45).

7. As per claim 16, Akiyama teaches An information processing apparatus for converting message information from a first format into a second format, comprising:

a. a first cipher unit having a first cipher key input and a data output for outputting a data stream generated dependent on a first cipher key input via said first cipher key input said first cipher unit comprising a memory for storage of data, means for updating said memory with input information, an instruction table having a set of operations arranged to modify the state of said memory, processing means arranged to select operations from said instruction table dependent on at least parts of said input information, and to execute said selected operations on the content of said memory wherein at least one of said set of operations is selectable dependent on every possible configuration of at least parts of said input information, and means for extracting output

Art Unit: 2131

information from said memory (Akiyama: see for example, Column 7 Line 12 – 19 and Figure 2 Element 201),

- b. a second cipher unit having a plaintext input a second cipher key input and a ciphertext out said second cipher unit via said second cipher key input being communicatively coupled to said data output of the first cipher unit for receiving a second cipher key in the shape of said data stream (Akiyama: see for example, Column 7 Line 20 – 41 and Figure 2 Element 202); and
- c. said first cipher unit being arranged to perform, dependent on a predetermined rule, a renewed generation of a data stream for use as said second cipher key (Akiyama: see for example, Column 10 Line 38 – 45).

8. As per claims 37 and 72, Akiyama teaches a computer implemented information processing method for converting message information from a first format into a second format, comprising the steps of:

- a. a first encryption algorithm taking a first cipher key as an input and generating a data stream dependent on said first cipher key (Akiyama: see for example, Column 7 Line 12 – 19 and Figure 2 Element 201);
- b. a second encryption algorithm taking plaintext as an input, taking a second cipher key as an input and generating a ciphertext dependent on said plaintext and on said second cipher key said second encryption algorithm receiving a second cipher key in the shape of said data stream from said first encryption algorithm (Akiyama: see for example, Column 7 Line 20 – 41 and Figure 2 Element 202); and

c. said first encryption algorithm performing, dependent on a predetermined rule, a renewed generation of a data stream for use as said second cipher key (Akiyama: see for example, Column 10 Line 38 – 45).

9. As per claims 52 and 87, Akiyama teaches a computer implemented information processing method for converting message information from a first format into a second format, comprising the steps of:

a. a first encryption algorithm including the steps of establishing a set of operations arranged for modifying the state of a memory, storing input information in a first format in said memory, selecting operations from said set of operations dependent on at least parts of said input information, and executing said selected operations on the content of said memory, wherein at least one of said set of operations is selectable dependent on every possible configuration of said input information, and extracting information from said memory in a second format after the execution of at least one operation (Akiyama: see for example, Column 7 Line 12 – 19 and Figure 2 Element 201);

b. a second encryption algorithm taking plaintext as an input, taking a second cipher key as an input and generating a ciphertext dependent on said plaintext and on said second cipher key said second encryption algorithm receiving a second cipher key in the shape of said data stream from said first encryption algorithm (Akiyama: see for example, Column 7 Line 20 – 41 and Figure 2 Element 202), and

c. said first encryption algorithm performing, dependent on a predetermined rule, a renewed generation of a data stream for use as said second cipher key (Akiyama: see for example, Column 10 Line 38 – 45).

10. As per claims 2, 17, 38, 53, 73 and 88, Akiyama teaches the claimed invention as described above (see claim 1, 16, 37, 52, 72 and 87 respectively). Akiyama further teaches performing said renewed generation of a data stream for each occasion of key output (Akiyama: see for example, Column 10 Line 38 – 45).

11. As per claims 3, 18, 39, 54, 74 and 89, Akiyama teaches the claimed invention as described above (see claim 1, 16, 37, 52, 72 and 87 respectively). Akiyama further teaches a synchronizing mechanism between the first and the second cipher unit being devised such that a renewed generation of a data stream is performed dependent on a synchronizing signal from the second cipher unit (Akiyama: see for example, Column 9 Line 10 – 17, Column 10 Line 38 – 45).

12. As per claims 4, 19, 40, 55, 75 and 90, Akiyama teaches the claimed invention as described above (see claim 1, 16, 37, 52, 72 and 87 respectively). Akiyama further teaches a buffer for said data stream said buffer being arranged to output a data stream stored in the buffer dependent on a synchronizing signal from the second cipher unit (Akiyama: see for example, Column 9 Line 20 – 29).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

13. Claims 5 – 15, 20 – 30, 41 – 51, 56 – 66, 76 – 86 and 91 – 101 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akiyama (Patent Number: 5440631), hereinafter referred to as Akiyama, in view of Bewick (Patent Number: 6072873), hereinafter referred to as Bewick.

14. As per claims 5, 20, 41, 56, 76 and 91, Akiyama teaches the claimed invention as described above (see claim 1, 16, 37, 52, 72 and 87 respectively). Akiyama does not expressly teach comprising a format adaptation mechanism devised to adapt said data stream to a format for a cipher key which is acceptable to said second cipher unit.

15. Bewick teaches comprising a format adaptation mechanism devised to adapt said data stream to a format for a cipher key which is acceptable to said second cipher unit (Bewick: see for example, Column 1 Line 48 – 56).

16. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Bewick within the system of Akiyama because Akiyama teaches the designs of multiple stage ciphering units for an information distribution system and Bewick teaches detail designs to implement

Art Unit: 2131

pipelined stream cipher and block cipher for DVB (Digital Video Broadcasting) information distribution system.

17. As per claims 6 – 7, 21 – 22, 42 – 43, 57 – 58, 77 – 78 and 92 – 93, Akiyama teaches the claimed invention as described above (see claim 1, 16, 37, 52, 72 and 87 respectively). Akiyama does not expressly teach the specific types of the first and second ciphering units.

18. Bewick teaches said second cipher unit is arranged to generate a block cipher (Bewick: see for example, Figure 1 and Column 5 Line 34).

19. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Bewick within the system of Akiyama because Akiyama teaches the designs of multiple stage ciphering units for an information distribution system and Bewick teaches detail designs to implement pipelined stream cipher and block cipher for DVB (Digital Video Broadcasting) information distribution system.

20. As per claims 10 – 13, 25 – 28, 46 – 49, 61 – 64, 81 – 84 and 96 – 99, Akiyama teaches the claimed invention as described above (see claim 1, 16, 37, 52, 72 and 87 respectively). Akiyama does not expressly teach the specific types of the first and second ciphering units.

21. Bewick teaches said second cipher unit is arranged to generate either DES or AES cipher (Bewick: see for example, Figure 1 and Column 5 Line 34: Bewick teaches one of the two-stage ciphering units is the block cipher and both DES and AES are the well-known stream ciphering techniques in the field).

Art Unit: 2131

22. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Bewick within the system of Akiyama because Akiyama teaches the designs of multiple stage ciphering units for an information distribution system and Bewick teaches detail designs to implement pipelined stream cipher and block cipher for DVB (Digital Video Broadcasting) information distribution system.

23. Therefore, the modification would have been obvious because one of ordinary skill in the art would have been motivated to modify the second cipher unit to perform either DES or AES ciphering functions because both DES and AES are well known block-ciphering techniques in the field.

24. As per claims 8 – 9, 23 – 24, 44 – 45, 59 – 60, 79 – 80 and 94 – 95, Akiyama teaches the claimed invention as described above (see claim 1, 16, 37, 52, 72 and 87 respectively). Akiyama does not expressly teach the specific types of the first and second ciphering units and hence Akiyama does not expressly teach said second cipher unit is arranged to generate a stream cipher.

25. Bewick teaches said second cipher unit is arranged to generate a stream cipher (Bewick: see for example, Figure 1 and Column 9 Line 10: Bewick teaches one of the two-stage ciphering units is the stream cipher).

26. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Bewick within the system of Akiyama because (a) Akiyama teaches the designs of multiple stage ciphering units for an information distribution system and (b) Bewick teaches detail designs to implement

Art Unit: 2131

pipelined stream cipher and block cipher for DVB (Digital Video Broadcasting) information distribution system, and (c) the stream cipher can thus be evidently allocated to the second ciphering unit.

27. As per claims 14 – 15, 29 – 30, 50 – 51, 65 – 66, 85 – 86 and 100 – 101, Akiyama teaches the claimed invention as described above (see claim 1, 16, 37, 52, 72 and 87 respectively). Akiyama does not expressly teach the specific types of the first and second ciphering units.

28. Bewick teaches said second cipher unit is arranged to perform encryption in accordance with the requirements in GSM, for example A5/1 or A5/2 (Bewick: see for example, Figure 1 and Column 5 Line 34: Bewick teaches one of the two-stage ciphering units is the stream cipher and GSM A5 is a well-known stream ciphering technique in the field).

29. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Bewick within the system of Akiyama because Akiyama teaches the designs of multiple stage ciphering units for an information distribution system and Bewick teaches detail designs to implement pipelined stream cipher and block cipher for DVB (Digital Video Broadcasting) information distribution system.

30. Therefore, the modification would have been obvious because one of ordinary skill in the art would have been motivated to modify the second cipher unit to perform GSM A5 ciphering functions because GSM A5 is a well-known stream-ciphering technique in the field.

31. Claims 31 – 34, 67 – 69, and 102 – 104 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akiyama (Patent Number: 5440631), hereinafter referred to as Akiyama, in view of Richard (Patent Number: 4004089), hereinafter referred to as Richard and in view of Hiramoto (Patent Number: US 6657953 B1), hereinafter referred to as Hiramoto, and evidenced by Bewick (Patent Number: 6072873), hereinafter referred to as Bewick.

32. As per claims 31, 67 and 102, Akiyama teaches the claimed invention as described above (see claim 16, 52 and 87 respectively). Akiyama does not expressly disclose the loopback (or feedback) processing method.

33. Richard teaches the non-linear feedback circuits used for a ciphering key generator of the ciphering unit (Richard: see for example, Column 1 Line 39 – 46).

34. Richard does not expressly teach the feedback unit couple to a memory.

35. Hiramoto teaches signal loopback device using a loopback memory (Hiramoto: see for example, Column 14 Line 52).

36. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Richard and Hiramoto within the system of Akiyama because (a) Akiyama teaches the designs of multiple stage ciphering units for an information distribution system and (b) Richard teaches the non-linear loopback methods in programmable cryptographic device for ciphering units, and (c) Hiramoto teaches the detailed signal loopback devices by using loopback memory.

Art Unit: 2131

37. Furthermore, this is further evidenced by Bewick using the loopback functions for two-stage ciphering units (Bewick: see for example, Column 4 Line 59 and Figure 4)

38. Therefore, Akiyama as modified teaches a feedback unit coupled to said memory and arranged to combine a first processing material with a processing material obtained from a previous processing step, to feedback processing material to a program memory and to output a data stream in the shape of a completed internal key.

39. As per claim 32, Akiyama as modified teaches the claimed invention as described above (see claim 31). Akiyama as modified further teaches the feedback unit comprises a feedback memory, possibly realized as a stack, coupled to a functional unit having a feedback to the feedback memory and to the output of the feedback unit according to a predetermined function (See same rationale addressed for claim 31 above).

40. As per claims 33, 68 and 103, Akiyama teaches the claimed invention as described above (see claim 16, 52 and 87 respectively). Akiyama as modified further teaches the functional unit comprises a linear feedback and/or a non-linear feedback (See same rationale addressed for claim 31 above).

41. As per claims 34, 69 and 104, Akiyama teaches the claimed invention as described above (see claim 32, 67 and 102 respectively). Akiyama as modified further teaches directing the data processing system to select, for the feedback, a function operator from a plurality of operators dependent on a predetermined rule (Akiyama: see for example, Column 10 Line 38 – 45) & (Bewick: see for example, Column 4 Line 59 and Figure 4).

42. Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Akiyama (Patent Number: 5440631), hereinafter referred to as Akiyama, in view of Hamann (Patent Number: 4352097), hereinafter referred to as Hamann.

43. As per claims 35, Akiyama teaches the claimed invention as described above (see claim 16). Akiyama does not expressly teach the memory comprises two memory units a cross connection unit and a second memory means having a control unit and a memory space arranged for storing status information of the memory units where any of the two firstly mentioned memory units is externally available and wherein it is arranged such that the content in said second memory means is exchangeable.

44. Hamann teaches the memory comprises two memory units a cross connection unit and a second memory means having a control unit and a memory space arranged for storing status information of the memory units where any of the two firstly mentioned memory units is externally available and wherein it is arranged such that the content in said second memory means is exchangeable (Hamann: see for example, Column 3 Line 54 – 60).

45. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Richard and Hamann within the system of Akiyama because (a) Akiyama teaches the designs of multiple stage ciphering units for an information distribution system and (b) Hamann teaches using two different pieces of memory interchangeable to improve ciphering effect for anti-theft systems.

46. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Akiyama (Patent Number: 5440631), hereinafter referred to as Akiyama, in view of Hamann (Patent Number: 4352097), hereinafter referred to as Hamann, and in view of Kneib (Patent Number: 4641238), hereinafter referred to as Kneib.

47. As per claims 36, Akiyama teaches the claimed invention as described above (see claim 35). Akiyama as modified does not expressly teach the cross connection unit is arranged such that both memory parts can be called simultaneously, and such that the memory parts are instantaneously interchangeable.

48. Kneib teaches the cross connection unit is arranged such that both memory parts can be called simultaneously, and such that the memory parts are instantaneously interchangeable (Kneib: see for example, Column 7 Line 25 – 29, Column 7 Line 35 – 40 and Column 7 Line 60 – 66: Dual-port memory can be accessed simultaneously).

49. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Richard and Kneib within the system of Akiyama as modified because (a) Akiyama as modified teaches the designs of multiple stage ciphering units for an information distribution system by using two different pieces of memory interchangeable to improve ciphering effect for anti-theft systems and (b) Kneib teaches the method both memories can be accessed simultaneously through dual-port memory.

50. Claims 67 and 102 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akiyama (Patent Number: 5440631), hereinafter referred to as Akiyama, in view of Bewick (Patent Number: 6072873), hereinafter referred to as Bewick.

51. As per claims 67 and 102, Akiyama teaches the claimed invention as described above (see claim 52 and 87 respectively). Akiyama does not expressly teach combining, in a feedback stage, a first processing material with a processing material obtained from a previous processing step, feeding back processing material to a program memory and outputting a data stream in the shape of a completed internal key.

52. Bewick teaches comprising the steps of combining, in a feedback stage, a first processing material with a processing material obtained from a previous processing step, feeding back processing material to a program memory and outputting a data stream in the shape of a completed internal key (Bewick: see for example, Column 4 Line 59 and Figure 4: Bewick teaches feedback functions).

53. See same rationale of combination applies here as above in rejecting the claim 5

54. Claims 70 and 105 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akiyama (Patent Number: 5440631), hereinafter referred to as Akiyama, in view of Bewick (Patent Number: 6072873), hereinafter referred to as Bewick, in view of Hamann (Patent Number: 4352097), hereinafter referred to as Hamann.

Art Unit: 2131

55. As per claims 70 and 105, Akiyama teaches the claimed invention as described above (see claim 67 and 102 respectively). Akiyama as modified does not expressly teach initializing said memory in the shape of two memory units, cross connecting said memory units to the memory output and to a second memory means, storing status information of the memory units in another memory space, wherein any of the two firstly mentioned memory units is externally available and wherein it is arranged such that the content in said second memory means is exchangeable.

56. Hamann teaches initializing said memory in the shape of two memory units, cross connecting said memory units to the memory output and to a second memory means, storing status information of the memory units in another memory space, wherein any of the two firstly mentioned memory units is externally available and wherein it is arranged such that the content in said second memory means is exchangeable (Hamann: see for example, Column 3 Line 54 – 60).

57. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Richard and Hamann within the system of Akiyama because (a) Akiyama teaches the designs of multiple stage ciphering units for an information distribution system and (b) Hamann teaches using two different pieces of memory interchangeable to improve ciphering effect for anti-theft systems.

58. Claims 71 and 106 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akiyama (Patent Number: 5440631), hereinafter referred to as Akiyama, in view of Bewick (Patent Number: 6072873), hereinafter referred to as Bewick, in view of

Hamann (Patent Number: 4352097), hereinafter referred to as Hamann and in view of Kneib (Patent Number:4641238), hereinafter referred to as Kneib.

59. As per claims 71 and 106, Akiyama as modified teaches the claimed invention as described above (see claim 70 and 105 respectively). Akiyama as modified does not expressly teach the cross connection unit is arranged such that both memory parts can be called simultaneously, and such that the memory parts are instantaneously interchangeable.

60. Kneib teaches the cross connection unit is arranged such that both memory parts can be called simultaneously, and such that the memory parts are instantaneously interchangeable (Kneib: see for example, Column 7 Line 25 – 29, Column 7 Line 35 – 40 and Column 7 Line 60 – 66: Dual-port memory can be accessed simultaneously).

61. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Richard and Kneib within the system of Akiyama as modified because (a) Akiyama as modified teaches the designs of multiple stage ciphering units for an information distribution system by using two different pieces of memory interchangeable to improve ciphering effect for anti-theft systems and (b) Kneib teaches the method both memories can be accessed simultaneously through dual-port memory.

Art Unit: 2131

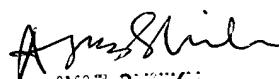
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Longbit Chai whose telephone number is 703-305-0710. The examiner can normally be reached on Monday-Friday 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Longbit Chai
Examiner
Art Unit 2131

LBC


AYAZ SHEIKH
SUPERVISOR, ART UNIT 2131
TECHNOLOGY CENTER 2131